



U.S. Department  
of Transportation

**Bureau of  
Transportation  
Statistics**

# **Freight Transportation in Massachusetts**

Selected Data from Federal Sources

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October 1996

# **Bureau of Transportation Statistics**

## **T. R. Lakshmanan, Director**

The Bureau of Transportation Statistics (BTS), established by the Intermodal Surface Transportation Efficiency Act of 1991, is an operating administration of the U.S. Department of Transportation (DOT). The Bureau is responsible for compiling, analyzing, and disseminating information on the nation's transportation systems. The Bureau collects information on intermodal transportation and other topics as needed. BTS is also responsible for enhancing the quality and effectiveness of DOT's statistical programs through research and improvements in data acquisition and use.

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### **Product Orders and General Number**

202-366-DATA

### **Statistical Information**

800-853-1351

[statistics@bts.gov](mailto:statistics@bts.gov)

### **Fax**

202-366-3640

### **Fax-on-Demand**

800-671-8012

### **Internet**

[www.bts.gov](http://www.bts.gov)

### **E-mail**

[firstname.lastname@bts.gov](mailto:firstname.lastname@bts.gov)

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## Preface

Welcome to the State Freight Transportation Profile. This report presents information on freight transportation in Massachusetts and is part of a series of reports covering all 50 States. The purpose of the report is to present the major Federal databases related to State freight movements. Along with tables generated for each State, this report gives descriptions of the databases, information on access and formats, and contact points.

The database descriptions are based on entries in the Bureau of Transportation Statistics' (BTS) *Directory of Transportation Data Sources*. This publication provides users with a comprehensive inventory of transportation data sources within the Department of Transportation, other Federal government agencies, U.S. private transportation organizations, and Canadian and Mexican government agencies.

This report was prepared by Felix Ammah-Tagoe and David Mednick under the direction of Rolf R. Schmitt, Associate Director for Transportation Studies. Oak Ridge National Laboratory (ORNL) prepared many of the tables and provided valuable assistance in compiling this report. Additional copies of this report may be obtained by contacting the Bureau of Transportation Statistics at (202) 366-3282, by faxing (202) 366-3640, or by e-mailing [orders@bts.gov](mailto:orders@bts.gov).

BTS plans to publish State profiles on other transportation topics as well. Because this is a new product, reader and user feedback is particularly essential to continued improvement. Please use the comment form enclosed or send comments to [info@bts.gov](mailto:info@bts.gov).

# **Transportation Facilities**

# **National Transportation Atlas Databases—1996**

## **Abstract**

The National Transportation Atlas Databases — 1996 (NTAD96) is a set of national geographic databases of transportation facilities. These databases include geospatial information for transportation modal networks and intermodal terminals, and related attribute information. Included are descriptions of the file formats and database metadata as prescribed by the Federal Geographic Data Committee (FGDC). The data support research, analysis, and decision making across all modes of transportation. The databases are most useful at the national level, but have major applications at regional, state, and local scale throughout the transportation community.

## **Source of Data**

The databases were compiled from many parts of the U.S. Department of Transportation, Oak Ridge National Laboratory, the U.S. Army Corps of Engineers, and the National Park Service.

## **Attributes**

Geographic Coverage of Data: United States  
First Developed: 1995  
Update Frequency: Annual  
File Format: ASCII, dBase  
Media: CD-ROM, Internet

## **Significant Features/Limitations**

The NTAD96 is available in both MS-DOS and UNIX compatible CD-ROM format. The files are also available on the Internet. The databases are designed for use within a geographic information system (GIS). Users should check the BTS world wide web site ([www.bts.gov](http://www.bts.gov)) for corrections and addenda.

## **Sponsoring Organization**

Department of Transportation, Bureau of Transportation Statistics

## **Performing Organization**

Oak Ridge National Laboratory, Vanderbilt University, and University of Tennessee Transportation Center

## **Availability**

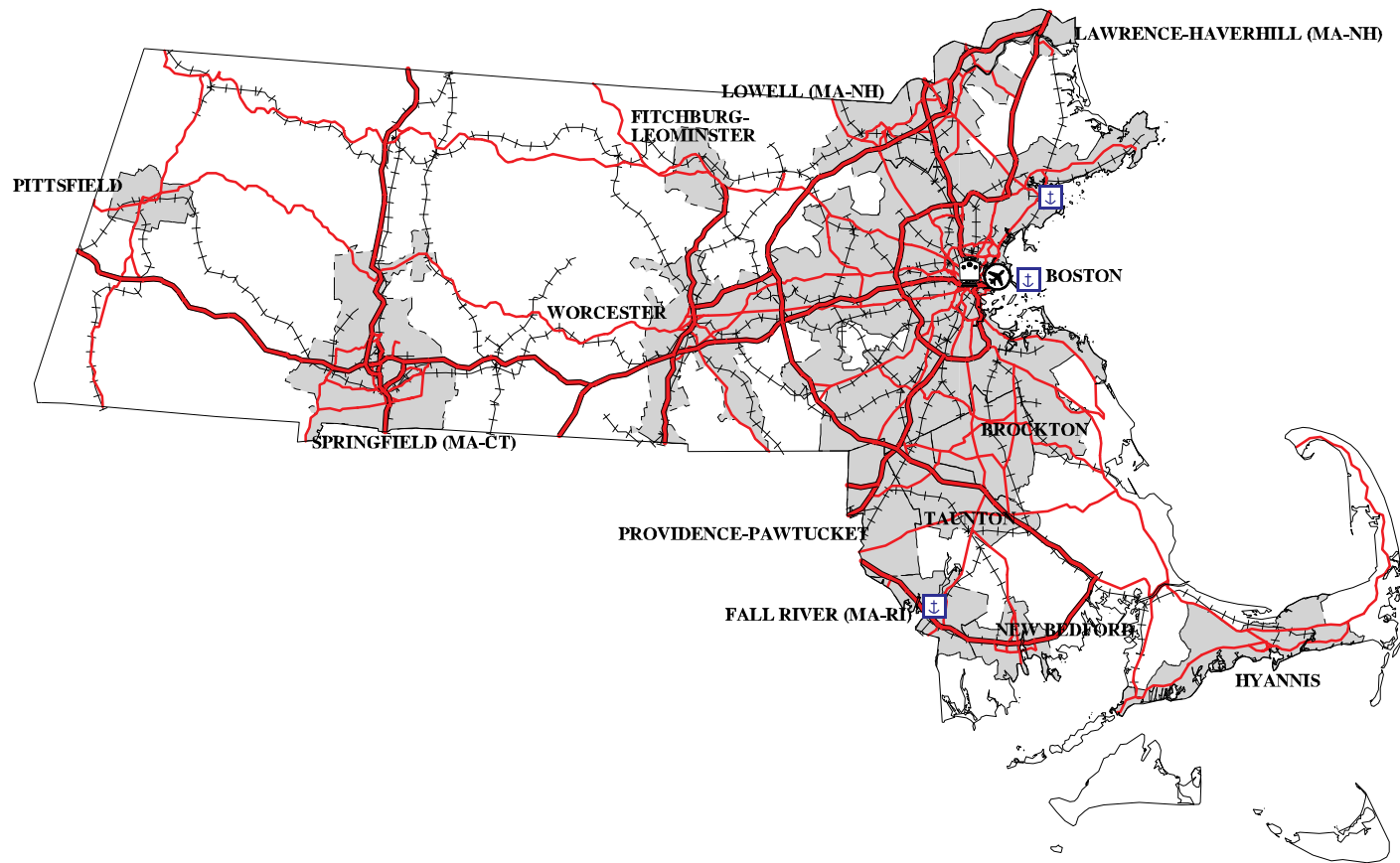
CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; (202) 366-3282; Fax: (202) 366-3640.

Internet: [www.bts.gov](http://www.bts.gov).

## **Contact for Additional Information**

Staff  
DOT/BTS, K-40  
(202) 366-3282, Fax: (202) 366-3640  
E-mail: [info@bts.gov](mailto:info@bts.gov)

# MASSACHUSETTS MAJOR TRANSPORTATION FACILITIES



- Interstate Highway
- Other National Highway System
- + + + Rail Line
- Urbanized Area
- ✈ Major Airport
- ⚓ Major Port
- 🚂 Urban Area with Rail Transit

Data provided by the U.S. Department of Transportation agencies, the U.S. Army Corps of Engineers, and the National Park Service, and are current as of 1995. Major airports are those that reported more than 250,000 enplanements in 1994. Major ports are those that handled more than one million tons of freight in 1994. Urban area with rail transit denotes urban areas with heavy- or light-rail transit.



U.S. Department  
of Transportation

**Bureau of  
Transportation Statistics**

## **Commodity Movements**



# Commodity Flow Survey

## Abstract

The Commodity Flow Survey (CFS) provides data on the movement of freight by type of commodity shipped and by mode of transport. The CFS is a continuation of statistics collected in the Commodity Transportation Survey from 1963 through 1977, and includes major improvements in methodology, sample size and scope. The Bureau of the Census used a sample of 200,000 domestic establishments randomly selected from a universe of about 800,000 in manufacturing, mining, wholesale, and some selected activities in retail and service. Each selected establishment reported a sample of shipments for a two-week period in each of the four calendar quarters of 1993. This produced a total sample of about 12 million shipments. For each sampled shipment, respondents reported domestic origin and destination, Standard Transportation Commodity Classification (STCC) code, weight, value, and modes of transport. Respondents also provided information on whether the commodity was shipped in a container, a hazardous material, or an export.

## Source of Data

A sample of manufacturing, mining, wholesale, auxiliary warehouses, and selected retail and service establishments completed a questionnaire.

## Attributes

Geographic Coverage of Data: U.S. totals, state, 89 National Transportation Analysis Regions (combination of Bureau of Economic Analysis Economic Areas)

First Developed: 1993

Update Frequency: Quinquennial (next planned survey year is 1997)

File Format: Aggregate data only will be released

Media: CD-ROM, Printed source, Internet

## Significant Features/Limitations

The 1993 CFS differs from previous surveys in expanded coverage of intermodal transportation, additional industry coverage, and more detailed geographic levels. Earlier surveys reported only the principal mode. The 1993 survey asked for all modes used for the shipment (for-hire truck, private truck, rail, water, pipeline, air, parcel delivery or U.S. Postal Service, other mode, unknown). The 1993 CFS produces data at the U.S., state, and National Transportation Analysis Region (NTAR) levels. There are 89 NTARs, comprised of BEA Economic Areas covering the United States.

The 1993 CFS does not cover shipments of crude petroleum and imports, which primarily affect water transportation and pipelines. Oak Ridge National Laboratory has estimated commodity flows for these two categories. Also, the Survey does not cover establishments classified in the Standard Industrial Classification as farms, forestry, fisheries, oil and gas extraction, governments, construction, transportation, households, foreign establishments, and most retail and service businesses. Furthermore, the CFS does not cover data on shipments originating in Puerto Rico and other U.S. territories and possessions. Commodities that are shipped from a foreign location to another foreign destination, through the United States (e.g., from Canada to Mexico) are also excluded from the Survey.

## **Corresponding Print Source**

1993 Commodity Flow Survey: U. S. Preliminary Report (by Census Bureau)

1993 Commodity Flow Survey: Area Reports for 50 States (by Census Bureau)

1993 Commodity Flow Survey: Preliminary Observations (by the Bureau of Transportation Statistics)

1993 Commodity Flow Survey: State Summaries (by the Bureau of Transportation Statistics)

## **Sponsoring Organization**

U.S. Department of Transportation, Bureau of Transportation Statistics; and the U.S. Department of Commerce, Bureau of the Census

## **Performing Organization**

Department of Commerce, Bureau of the Census; and Oak Ridge National Laboratory

## **Availability**

CD-ROM and Printed Sources: Bureau of the Census, Commodity Flow Survey Branch, Services Division, Washington, DC 20233; (301) 457-2805.

CD-ROM and Printed Sources: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; (202) 366-3282; Fax: (202) 366-3640.

Internet: [www.bts.gov](http://www.bts.gov).

## **Contact for Additional Information**

John Fowler  
Chief, Commodity Flow Survey Branch  
DOC/Bureau of the Census, Services Division  
(301) 457-2108, Fax: (301) 457-4491

## Commodity Movements Originating in Massachusetts Summary of 1993 CFS

In Massachusetts, the CFS measured \$112 billion of goods shipments weighing 73 million tons. Massachusetts accounted for approximately 2 percent of the value and 1 percent of the weight of total U.S. shipments. The CFS data cover shipments by establishments in mining, manufacturing, wholesale, and selected retail and service industries. The data exclude most shipments of crude oil; therefore, the totals and percentages do not fully reflect the contribution of pipeline shipments.

The major commodities shipped by establishments vary when measured by value and weight. The main commodities shipped from Massachusetts by value were: electrical machinery, equipment, or supplies; food or kindred products; chemicals or allied products; machinery, including computers; and instruments, photographic goods, optical goods, or clocks. The main commodities shipped by weight were: nonmetallic minerals; petroleum or coal products; food or kindred products; clay, concrete, glass, or stone products; and pulp, paper, or allied products.

Local transportation of freight is important to Massachusetts's commerce. The CFS shows that in 1993, about 34 percent of the value and 72 percent of the weight of total shipments from Massachusetts were shipped to destinations within the state. Approximately 35 percent of

the weight and 77 percent of the weight of all shipments were between places less than 50 miles apart. In comparison, about 30 percent of the value and 56 percent of the weight of total U.S. shipments were between places less than 50 miles apart. In Massachusetts, about 43 percent of the value of shipments and 85 percent of the weight of shipments were between places less than 100 miles apart.

About 66 percent of the value and 28 percent of the weight of all shipments from Massachusetts went to other states. Some of the most important destination states by value were: New York, Connecticut, California, New Jersey, and Pennsylvania. Important destination states by weight were: Rhode Island, New Hampshire, New York, Connecticut, and Pennsylvania.

Most commodities were moved by truck, approximately 72 percent of the value and 96 percent of the weight. Air was used to transport about 4 percent of the value of shipments. The CFS data confirm the rising importance of parcel, U.S. postal, and courier services that have emerged in recent years. In 1993, this mode of transport was used to ship 536,000 tons of goods worth about \$22 billion or 19 percent of the value of all shipments in Massachusetts. In comparison, about 9 percent of the value of total U.S. shipments were moved by this mode.

1993 Commodity Flow Survey State Summary: Massachusetts  
Tabulation by the Bureau of Transportation Statistics, U.S. Department of Transportation

Summary	Value	Weight
Total shipments originating in Massachusetts	\$111.7 billion	73.1 million tons
Percent of total U.S. shipments (preliminary U.S. estimate)	1.9	0.7

Commodity Shipments Originating in Massachusetts Ranked by Value		Commodity Shipments Originating in Massachusetts Ranked by Weight	
Commodity	Percent of value	Commodity	Percent of weight
Electrical machinery, equipment, or supplies .....	12.5	Nonmetallic minerals .....	35.2
Food or kindred products .....	11.0	Petroleum or coal products .....	20.0
Chemicals or allied products .....	8.4	Food or kindred products .....	13.0
Machinery, including computers .....	8.1	Clay, concrete, glass, or stone products .....	6.5
Instruments, photographic good, optical, or clocks .....	7.7	Pulp, paper, or allied products .....	4.6
Other commodities .....	52.3	Other commodities .....	20.8
Total .....	100.0	Total .....	100.0

Domestic Destinations of Shipments Originating in Massachusetts Ranked by Value		Domestic Destinations of Shipments Originating in Massachusetts Ranked by Weight	
State	Percent of value	State	Percent of weight
Massachusetts .....	33.5	Massachusetts .....	71.7
New York .....	6.9	Rhode Island .....	6.7
Connecticut .....	5.7	New Hampshire .....	3.8
California .....	5.4	New York .....	3.0
New Jersey .....	4.0	Connecticut .....	3.0
Pennsylvania .....	3.9	Pennsylvania .....	1.3
Other States .....	40.6	Other States .....	10.5
Total .....	100.0	Total .....	100.0

Modes of Transportation for Shipments Originating in Massachusetts		
Modes	Percent of value	Percent of weight
Parcel, U.S. Postal Service, or courier service .....	19.2	0.7
Truck (for-hire, private, and both private truck and for-hire truck) .....	72.0	95.6
Air (including truck and air) .....	3.6	-
Rail .....	0.3	0.8
Water (inland water, Great Lakes, deep sea, truck and water, and rail and water) .....	-	-
Pipeline* .....	-	-
Truck and rail intermodal combination .....	-	-
Other intermodal (truck and pipeline, inland and Gt. Lakes, inland and deep sea) .....	-	-
Other, unknown, and withheld for sampling and disclosure reasons .....	4.9	2.9
Total .....	100.0	100.0

Domestic Distance Shipped for Commodities Originating in Massachusetts		
Distance	Percent of value	Percent of weight
Less than 50 miles .....	34.5	77.2
50 to 99 miles .....	8.7	8.0
100 to 249 miles .....	14.5	6.6
250 to 499 miles .....	9.1	2.9
500 to 749 miles .....	7.2	1.3
750 to 999 miles .....	7.2	1.5
1,000 to 1,499 miles .....	7.0	1.3
1,500 to 1,999 miles .....	3.2	0.4
2,000 miles or more .....	8.5	0.9
Total .....	100.0	100.0

\* CFS data for pipelines exclude most shipments of crude oil.

\*\* Some or all data suppressed to avoid disclosure or because data are statistically unreliable.

- Represents zero or less than 1 unit of measurement.

NOTE: Data are estimates based on a sample and subject to error. See Appendix B, "Reliability of the Data," in source document.

SOURCE: U.S. Department of Commerce, Bureau of the Census, 1992 Census of Transportation, Communications, and Utilities, 1993 Commodity Flow Survey, TC92-CF (Washington, DC: 1996).

90-Percent Confidence Intervals for 1993 Commodity Flow Survey State Summary: Massachusetts  
Tabulation by the Bureau of Transportation Statistics, U.S. Department of Transportation

Summary	Value	Weight
Total shipments originating in Massachusetts (in billion \$ and million tons)	107.84 - 115.56	59.87 - 86.33
Percent of total U.S. shipments (preliminary U.S. estimate)	1.77 - 1.93	0.60 - 0.88

Commodity Shipments Originating in Massachusetts Ranked by Value		Commodity Shipments Originating in Massachusetts Ranked by Weight	
Commodity	Percent of value	Commodity	Percent of weight
Electrical machinery, equipment, or supplies .....	10.7 - 14.3	Nonmetallic minerals .....	15.9 - 54.4
Food or kindred products .....	8.7 - 13.2	Petroleum or coal products .....	11.2 - 28.7
Chemicals or allied products .....	7.0 - 9.7	Food or kindred products .....	9.4 - 16.7
Machinery, including computers .....	7.0 - 9.2	Clay, concrete, glass, or stone products .....	4.4 - 8.7
Instruments, photographic good, optical, or clocks .....	6.1 - 9.3	Pulp, paper, or allied products .....	3.5 - 5.7
Other commodities .....	(NA)	Other commodities .....	(NA)
Total .....	(X)	Total .....	(X)

Domestic Destinations of Shipments Originating in Massachusetts Ranked by Value		Domestic Destinations of Shipments Originating in Massachusetts Ranked by Weight	
State	Percent of value	State	Percent of weight
Massachusetts .....	31.5 - 35.5	Massachusetts .....	67.8 - 75.7
New York .....	5.9 - 7.9	Rhode Island .....	3.7 - 9.7
Connecticut .....	4.6 - 6.9	New Hampshire .....	2.5 - 5.1
California .....	4.9 - 5.9	New York .....	2.3 - 3.7
New Jersey .....	3.2 - 4.8	Connecticut .....	2.5 - 3.5
Pennsylvania .....	3.1 - 4.7	Pennsylvania .....	0.8 - 1.8
Other States .....	(NA)	Other States .....	(NA)
Total .....	(X)	Total .....	(X)

Modes of Transportation for Shipments Originating in Massachusetts		
Modes	Percent of value	Percent of weight
Parcel, U.S. Postal Service, or courier service .....	17.4 - 21.0	0.5 - 0.9
Truck (for-hire, private, and both private truck and for-hire truck) .....	69.0 - 75.1	90.9 - 100.3
Air (including truck and air) .....	2.6 - 4.6	(X)
Rail .....	0.1 - 0.5	0.3 - 1.3
Water (inland water, Great Lakes, deep sea, truck and water, and rail and water) ..	(X)	(X)
Pipeline* .....	(X)	(X)
Truck and rail intermodal combination .....	(X)	(X)
Other intermodal (truck and pipeline, inland and Gt. Lakes, inland and deep sea) ..	(X)	(X)
Other, unknown, and withheld for sampling and disclosure reasons .....	3.8 - 6.1	1.8 - 4.1
Total .....	(X)	(X)

Domestic Distance Shipped for Commodities Originating in Massachusetts		
Distance	Percent of value	Percent of weight
Less than 50 miles .....	32.5 - 36.5	73.3 - 81.2
50 to 99 miles .....	7.7 - 9.7	6.5 - 9.5
100 to 249 miles .....	13.2 - 15.8	5.3 - 7.9
250 to 499 miles .....	7.0 - 11.2	2.1 - 3.7
500 to 749 miles .....	6.2 - 8.2	0.8 - 1.8
750 to 999 miles .....	6.7 - 7.7	1.2 - 1.8
1,000 to 1,499 miles .....	6.0 - 8.0	0.6 - 2.0
1,500 to 1,999 miles .....	2.7 - 3.7	0.2 - 0.6
2,000 miles or more .....	7.5 - 9.5	0.6 - 1.2
Total .....	(X)	(X)

\* CFS data for pipelines exclude most shipments of crude oil.

NA Not available.

X Not applicable.

NOTE: For explanation of 90-percent confidence intervals see Appendix B, "Reliability of the Data," in source document.

SOURCE: U.S. Department of Commerce, Bureau of the Census, 1992 Census of Transportation, Communications, and Utilities, 1993 Commodity Flow Survey, TC92-CF (Washington, DC: 1996).

**1993 Commodity Flow Survey**  
**Out-of-State Shipments as Percent of State's Total Shipments**

State	Percent of value	Percent of weight
Alabama .....	66.2	28.8
Alaska .....	19.2	17.4
Arizona .....	57.3	23.0
Arkansas .....	73.7	41.0
California .....	38.8	8.8
Colorado .....	57.6	23.8
Connecticut .....	79.2	23.0
Delaware .....	85.2	72.2
Florida .....	36.8	18.2
Georgia .....	66.8	28.3
Hawaii .....	7.4	10.8
Idaho .....	68.2	35.5
Illinois .....	66.0	42.6
Indiana .....	71.6	43.9
Iowa .....	64.9	39.6
Kansas .....	74.7	46.2
Kentucky .....	75.6	51.0
Louisiana .....	50.7	33.6
Maine .....	65.5	27.2
Maryland .....	69.0	43.4
<b>Massachusetts .....</b>	<b>66.5</b>	<b>28.3</b>
Michigan .....	52.1	26.1
Minnesota .....	60.0	41.3
Mississippi .....	71.3	43.9
Missouri .....	73.5	36.6
Montana .....	47.0	57.8
Nebraska .....	70.9	51.0
Nevada .....	74.1	19.0
New Hampshire .....	77.8	**
New Jersey .....	68.7	40.6
New Mexico .....	51.7	40.3
New York .....	58.8	23.8
North Carolina .....	61.9	30.4
North Dakota .....	62.5	43.9
Ohio .....	62.5	30.0
Oklahoma .....	65.5	45.1
Oregon .....	58.5	19.8
Pennsylvania .....	64.7	38.1
Rhode Island .....	79.1	45.8
South Carolina .....	69.5	36.5
South Dakota .....	60.0	44.9
Tennessee .....	74.4	39.2
Texas .....	40.0	16.3
Utah .....	63.8	19.2
Vermont .....	65.8	31.9
Virginia .....	63.5	28.4
Washington .....	44.2	16.2
West Virginia .....	74.6	63.7
Wisconsin .....	64.9	30.5
Wyoming .....	70.8	84.3

\*\* Some or all data suppressed to avoid disclosure or because data are statistically unreliable.  
SOURCE: U.S. Department of Commerce, Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities, 1993 Commodity Flow Survey*, TC92-CF (Washington, DC: 1996).

**1993 Commodity Flow Survey**  
**Shipments to Massachusetts from Neighboring States**

<b>State of origin</b>	<b>Value (million dollars)</b>	<b>Weight (thousand tons)</b>	<b>Percent value of state's shipments*</b>	<b>Percent weight of state's shipments*</b>
Connecticut	6,926	2,229	9.7	5.0
New Hampshire	2,304	2,160	14.0	4.5
New York	8,511	3,777	3.2	1.7
Rhode Island	3,876	-	19.9	-
Vermont	549	402	6.4	3.3

\* Percentages are based on total shipments originating in neighboring states.

- Data do not meet publication standards.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities, 1993 Commodity Flow Survey*, TC92-CF, 1996 (Washington, DC: 1996).

## **Exports To and Imports From Canada and Mexico**



# Surface Transborder Commodity Data

## Abstract

The Bureau of Census provides the Bureau of Transportation Statistics with unpublished freight flow data by commodity type by mode of transportation (rail, truck or pipeline) for U.S. exports and imports to and from Canada and Mexico. The purpose of this program is to provide information needed to monitor increased traffic associated with the North American Free Trade Agreement and provide border communities better data to plan transportation improvements.

## Source of Data

U.S. Department of Commerce/Bureau of the Census, Foreign Trade Division.

## Attributes

Geographic Coverage of Data: U.S., Canadian, Mexican totals  
Time Span of Data Source: 04/93-03/95  
First Developed: 1993  
Update Frequency: Annual  
File Format: dBase  
Media: CD-ROM

## Significant Features/Limitations

Files are organized by commodity detail or by geographic detail to satisfy Census confidentiality regulations.

## Sponsoring Organization

U.S. Department of Transportation, Bureau of Transportation Statistics

## Availability

CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; (202) 366-3282; Fax: (202) 366-3640.

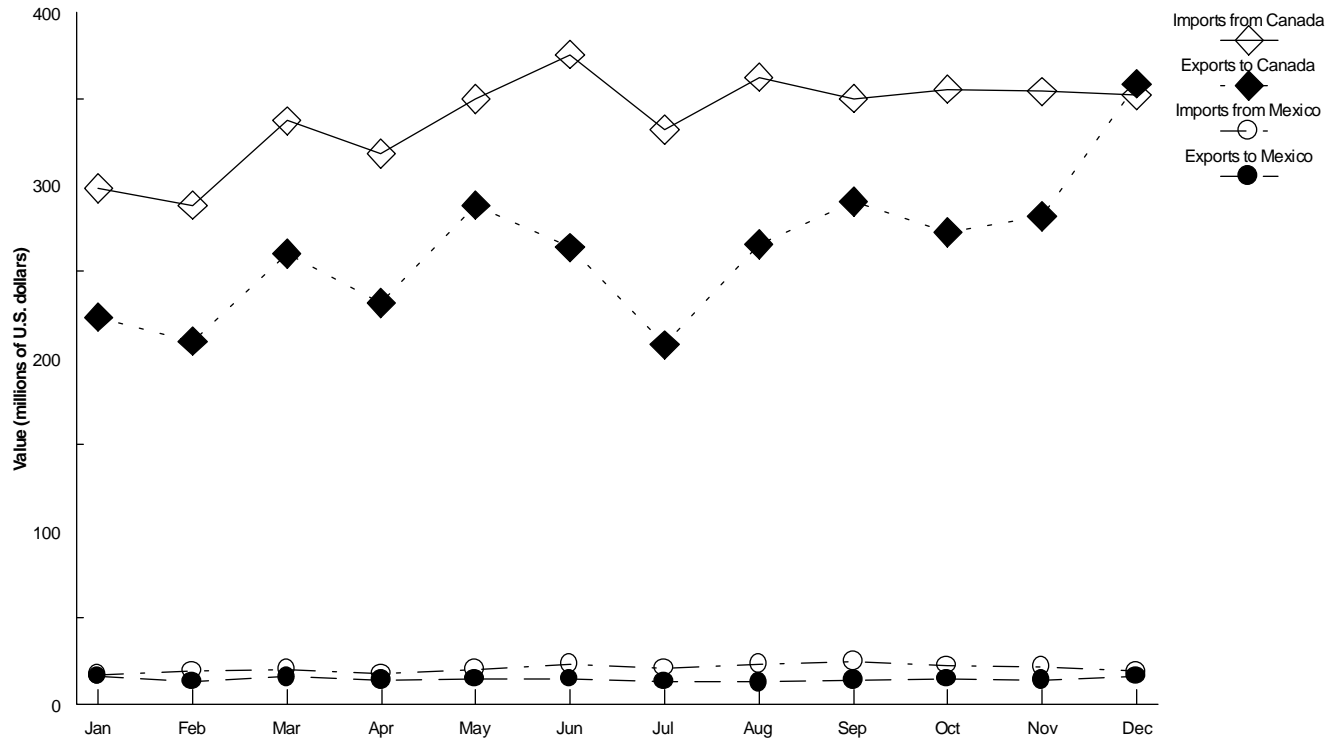
Internet: [www.bts.gov](http://www.bts.gov) (monthly data after 3/95)

## Contact for Additional Information

Lisa Randall  
Project Manager  
BTS, K-10  
(202) 366-6660, Fax: (202) 366-3640  
E-mail: [lisa.randall@bts.gov](mailto:lisa.randall@bts.gov)

Joel Palley  
Industry Economist  
DOT/FRA, RRP-31  
(202) 632-3139, Fax: (202) 632-3705

## TransBorder Surface Freight Data, Massachusetts, 1995



Source: U.S. Department of Transportation, Bureau of Transportation Statistics, *TransBorder Surface Trade Flow Data* (Washington, DC: 1996).

**TransBorder Surface Freight Data, 1995**  
(million dollars)

State	Export to		Import from	
	Canada	Mexico	Canada	Mexico
Alabama .....	1,043	176	781	434
Alaska .....	71	2	110	4
Arizona .....	561	2,076	444	3,123
Arkansas .....	605	96	666	94
California .....	5,648	6,287	5,198	9,052
Colorado .....	646	106	785	94
Connecticut .....	1,428	300	1,341	309
Delaware .....	663	145	437	64
District of Columbia .....	32	7	111	0
Florida .....	1,259	277	1,361	414
Georgia .....	1,672	392	1,800	519
Hawaii .....	7	1	142	3
Idaho .....	241	40	340	21
Illinois .....	7,776	876	8,299	1,382
Indiana .....	5,262	232	2,521	2,382
Iowa .....	1,539	191	897	57
Kansas .....	1,054	324	599	52
Kentucky .....	2,195	141	2,346	580
Louisiana .....	642	132	362	55
Maine .....	562	11	1,337	30
Maryland .....	1,094	46	917	53
<b>Massachusetts .....</b>	<b>3,155</b>	<b>172</b>	<b>4,072</b>	<b>249</b>
Michigan .....	16,723	2,980	42,214	9,677
Minnesota .....	2,527	143	4,686	177
Mississippi .....	406	171	314	231
Missouri .....	1,647	379	1,537	490
Montana .....	157	19	693	6
Nebraska .....	463	109	374	45
Nevada .....	159	11	254	28
New Hampshire .....	386	44	558	36
New Jersey .....	2,870	371	3,104	741
New Mexico .....	31	50	70	103
New York .....	9,406	637	12,454	1,344
North Carolina .....	3,275	759	2,362	1,237
North Dakota .....	373	37	1,068	16
Ohio .....	10,386	596	7,238	1,992
Oklahoma .....	560	131	319	120
Oregon .....	1,468	74	1,581	39
Pennsylvania .....	4,673	594	5,028	505
Rhode Island .....	302	25	607	32
South Carolina .....	1,494	183	937	742
South Dakota .....	120	6	198	10
Tennessee .....	2,609	467	2,303	2,153
Texas .....	5,485	18,745	4,113	14,237
Utah .....	332	66	611	21
Vermont .....	2,460	9	3,682	7
Virginia .....	1,408	162	1,615	233
Washington .....	9,582	139	4,388	113
West Virginia .....	356	22	464	46
Wisconsin .....	3,749	279	3,965	196
Wyoming .....	52	7	72	1
Unidentified states .....	9,271	3,416	1,992	598
<b>U.S. Total .....</b>	<b>129,884</b>	<b>42,661</b>	<b>143,669</b>	<b>54,146</b>

SOURCE: U.S. Department of Transportation, Bureau of Transportation Statistics, *TransBorder Surface Trade Flow Data* (Washington, DC: 1996).

## **Rail Shipments**

# **Rail Waybill Data, 1988-1992**

## **Abstract**

This database contains public-use, aggregate, non-confidential rail shipment data such as origin and destination points, type of commodity, number of cars, tons, revenue, length of haul, participating railroads, and interchange locations. The data are based on the Carload Waybill Sample, which is a proprietary sample of freight waybills that were submitted to the Interstate Commerce Commission (now the Surface Transportation Board) by Class I Railroads.

## **Source of Data**

Class I Railroads.

## **Attributes**

Geographic Coverage of Data: U.S. Class I Railroads  
Time Span of Data Source: 1988-1992  
First Developed: 1994  
Media: CD-ROM

## **Sponsoring Organization**

U.S. Department of Transportation, Bureau of Transportation Statistics

## **Availability**

CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; (202) 366-3282; Fax: (202) 366-3640.

Internet: [www.bts.gov](http://www.bts.gov)

## **Contact for Additional Information**

Staff  
DOT/BTS, K-10  
(202) 366-3282, Fax: (202) 366-3640  
E-mail: [info@bts.gov](mailto:info@bts.gov)

## Rail Shipments From and To Massachusetts, 1994 \*

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Originated within Massachusetts: major commodities shipped by rail, ranked by weight

Commodity	Tonnage	Percent of state total
Mixed freight	826,536	37
Empty shipping containers	253,100	11
Waste and scrap	251,260	11
Transportation equipment	189,725	8
Food products	155,160	7

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Terminated within Massachusetts: major commodities shipped by rail, ranked by weight

Commodity	Tonnage	Percent of state total
Coal	1,368,216	15
Nonmetallic minerals	1,362,228	15
Mixed freight	1,150,368	12
Food products	1,087,360	12
Transportation equipment	869,720	9

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\*The five largest (by tonnage terminated and originated) of the 36 two-digit Standard Transportation Commodity Code groupings, and the percentage that commodity represents of all tonnage handled within the state.

SOURCE: Rail Waybill Data, compiled by the DOT Surface Transportation Board (formerly part of the Interstate Commerce Commission) and the DOT Federal Railroad Administration (Washington, DC: 1996).

## **Waterborne Commerce**

# Origin and Destination of Waterborne Commerce of the United States, Public Domain Data

## Abstract

This database contains aggregated information that depicts waterborne commodity movements between 26 geographical regions or between individual states of the United States. This database protects the confidentiality of the data provided by the individual companies and provides the origin/destination of commodity flows.

## Sources of Data

Vessel operating companies file vessel operations reports.

## Attributes

Geographic Coverage of Data: U.S. totals, U.S. territories  
Time Span of Data Source: 1985-1994  
First Developed: 1985  
Update Frequency: Annual  
File Format: ASCII  
Media: Diskette, Printed Source, CD-ROM

## Significant Features/Limitations

All companies moving commerce by water are required by law to report.

## Sponsoring Organization

U.S. Army Corps of Engineers, Products and Services Office

## Corresponding Print Source

Origin and Destination of Waterborne Commerce of the United States, Public Domain

## Availability

Diskette and Printed Source: U.S. Army Corps of Engineers, Products and Services Office, Waterborne Commerce Statistics Center, P.O. Box 61280, New Orleans, LA 70161-1280; (504) 862-1424; Fax: (504) 862-1423. Price, \$5/data file; \$15/printed source.

CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; (202) 366-3282; Fax: (202) 366-3640.

## Contact for Additional Information

Thomas Mire  
Data Manager  
COE/Waterborne Commerce Statistics Office  
(504) 862-1424, Fax: (504) 862-1423

Roy Walsh  
Data Manager  
COE/Waterborne Commerce Statistics Office  
(504) 862-1424, Fax: (504) 862-1423



# United States Waterway Data

## Abstract

This collection of data bases is a compilation of information related to the navigable waters in the United States including inland, off-shore, Great Lakes and Saint Lawrence Seaway. Data on commerce, facilities and performance, imports and exports, and accidents are included along with the geographic waterways network.

## Sources of Data

U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center and Navigation Data Center; U.S. Department of Commerce Bureau of the Census; and U.S. Coast Guard.

## Attributes

Geographic Coverage of Data: U.S. navigable waterways

First Developed: 1994

Update Frequency: Annual

File Format: ASCII

Media: CD-ROM

## Sponsoring Organization

U.S. Department of Transportation, Bureau of Transportation Statistics

## Availability

DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; (202) 366-3282; Fax: (202) 366-3640.

## Contact for Additional Information

Staff

DOT/BTS, K-40

(202) 366-3282, Fax: (202) 366-3640

E-mail: [info@bts.gov](mailto:info@bts.gov)

**Waterborne Tonnage for Massachusetts, 1994**  
(thousand tons)

	Domestic	Foreign	Total
Shipping . . .	868	670	1,538
Receiving . .	11,235	11,165	22,400
Intrastate . . .	1,659	-	1,659
<b>Total . . . . .</b>	<b>13,762</b>	<b>11,835</b>	<b>25,597</b>

SOURCE: U.S. Department of Transportation, Bureau of Transportation Statistics, *United States Waterway Data CD-ROM*, BTS CD-18 (Washington, DC: 1996).

**Waterborne Shipments Originating in Massachusetts, 1994**

Destination	Thousand tons	Percent
Canada . . . . .	72	2.2
Connecticut . . . . .	121	3.8
Florida . . . . .	10	0.3
Foreign . . . . .	599	18.7
Massachusetts . . . . .	1,659	51.9
Maine . . . . .	238	7.4
New Hampshire . . . . .	99	3.1
New Jersey . . . . .	273	8.5
New York . . . . .	15	0.5
Rhode Island . . . . .	110	3.5
Virginia . . . . .	2	0.0
<b>Total . . . . .</b>	<b>3,197</b>	<b>100.0</b>

SOURCE: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *State-to-State Public Domain Database* (New Orleans, LA: 1996).

### Waterborne Shipments Originating in Massachusetts, 1994

Commodity	Thousand tons	Percent
Petroleum products . . . . .	1,767	55.3
Chemical fertilizers . . . . .	1	0.0
Chemicals excluding fertilizers. . . . .	27	0.8
Lumber, logs, wood chips, and pulp . . . . .	52	1.6
Sand, gravel, shells, clay, salt, and slag . . . . .	18	0.6
Iron ore, iron, and steel waste and scrap. . . . .	417	13.1
Non-ferrous ores and scrap. . . . .	2	0.1
Primary non-metal products. . . . .	14	0.4
Primary metal products . . . . .	7	0.2
Food and food products. . . . .	40	1.2
Manufactured goods . . . . .	36	1.1
Unknown and not elsewhere classified products	816	25.5
<b>Total . . . . .</b>	<b>3,197</b>	<b>100.0</b>

SOURCE: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *State-to-State Public Domain Database* (New Orleans, LA: 1996).

## **Transportation Establishments**

# 1992 Census of Transportation Geographic Area Series (TC92-A-1)

## Abstract

Presents data for establishments with payroll from selected transportation services for the United States, each state, District of Columbia, and selected Metropolitan Statistical Areas (MSAs). Presents general statistics on number of establishments, revenue, payroll, and employment by varied transportation classifications. Data are also provided on revenue and employees per establishment, and on revenue and payroll per employee. Comparative statistics showing percent changes in revenue and payroll between 1982 and 1992 are also shown for some kind-of-business classifications.

transportation services. Excludes firms without paid employees, governmental establishments, and auxiliary establishments.

## Sponsoring Organization

U.S. Department of Commerce, Bureau of the Census, Business Division

## Availability

Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402; (202) 512-1800.

## Source of Data

U.S. Department of Commerce, Bureau of the Census, 1992 Economic Census; 1992 Census of Transportation (transportation companies).

## Contact for Additional Information

Sidney Marcus  
Chief  
DOC/Bureau of the Census  
Utilities Census Branch  
(301) 457-2786, Fax: (301) 457-4576

## Attributes

Geographic Coverage of Data: U.S. totals, state, District of Columbia, selected MSAs  
Time Span of Data Source: 01/92-12/92  
First Developed: 1991  
Update Frequency: Quinquennial  
Media: Tape, Printed source

Larry Britt  
Assistant Chief  
DOC/Bureau of the Census  
Utilities Census Branch  
(301) 457-2786, Fax: (301) 457-4576

## Significant Features/Limitations

Covers selected transportation industries as defined in Division E of the Standard Industrial Classification (SIC) Manual. Includes all establishments with one or more paid employees primarily engaged in these classifications: SIC 42, motor freight transportation and warehousing; SIC 44, water transportation; and SIC 47,

## Massachusetts Summary Statistics for the 1992 Census of Transportation

Kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees *
<b>Passenger transportation</b>	<b>723</b>	<b>585,450</b>	<b>247,651</b>	<b>17,197</b>
Local and suburban passenger transportation	285	243,463	118,774	6,914
Local and suburban transit	63	43,552	22,118	1,173
Other local passenger transportation	222	199,911	96,656	5,741
Sightseeing bus	10	6,929	2,603	167
Limousine service	71	40,155	24,511	1,360
Ambulance or rescue service, except by air	84	114,427	53,487	2,866
Other local passenger transportation, n.e.c.	57	38,400	16,055	1,348
Taxicabs	178	50,521	19,303	1,500
Other bus transportation and terminal service	260	291,466	109,574	8,783
Intercity and rural bus service	15	52,922	19,525	866
Charter bus service	31	32,968	9,975	556
Local charter bus	14	4,692	1,375	110
Charter bus, except local	17	28,276	8,600	446
School buses	214	205,576	80,074	7,361
Bus terminal and service facilities	0	0	0	0
<b>Motor freight transportation and warehousing</b>	<b>1,860</b>	<b>2,593,298</b>	<b>738,035</b>	<b>26,250</b>
Trucking and courier services, except air	1,657	2,429,485	684,820	24,023
Local trucking without storage	867	770,165	164,194	6,659
Household goods moving	89	15,132	4,340	287
General freight	216	126,461	36,560	1,429
Garbage and trash collection	159	366,658	78,691	2,373
Dump trucking	200	65,470	14,805	563
Other local trucking without storage	203	196,444	29,798	2,007
Hazardous materials	40	37,025	7,831	276
Agricultural products	29	13,084	3,565	127
Other local trucking without storage, n.e.c.	134	146,335	18,402	1,604
Trucking, except local	551	986,011	298,785	9,623
Household goods moving	67	102,029	28,420	1,104
General freight trucking	362	680,000	211,756	6,327
Other trucking, except local	122	203,982	58,609	2,192
Hazardous materials	25	46,987	15,524	659
Agricultural products	12	8,361	2,034	122
Other trucking, except local, n.e.c.	85	148,634	41,051	1,411
Local trucking with storage	103	120,317	40,717	1,508
Household goods moving	63	56,393	22,644	904
Other local trucking with storage	40	63,924	18,073	604
Courier services, except by air	136	555,992	181,124	6,233
Public warehousing and storage	203	163,813	53,215	2,227
Farm products warehousing and storage	2	**	**	AA
Refrigerated warehousing and storage	23	**	**	EE
General warehousing and storage	137	79,057	26,094	1,189
General goods warehousing	66	62,287	23,342	1,020
Self-service or miniwarehousing	71	16,770	2,752	169
Special warehousing and storage, n.e.c.	41	42,148	14,366	657
Trucking terminal facilities	0	0	0	0
<b>Water transportation</b>	<b>194</b>	<b>311,529</b>	<b>67,059</b>	<b>1,854</b>
Water transportation of freight	10	159,318	21,769	411
Deep sea foreign and domestic freight	10	159,318	21,769	411
Deep sea foreign freight	7	**	**	EE
Deep sea domestic freight	3	**	**	AA
Other water transportation of freight	0	0	0	0
Great Lakes-St Lawrence Seaway freight	0	0	0	0
Water transportation of freight, n.e.c.	0	0	0	0
Water transportation of passengers	31	40,416	11,723	310
Ferries	9	16,056	5,569	120
Water transportation of passengers, except by ferry	22	24,360	6,154	190
Deep sea transportation, except by ferry	0	0	0	0
Water transportation of passengers, n.e.c.	22	24,360	6,154	190
Services incidental to water transportation	153	111,795	33,567	1,133
Marinas	115	65,149	17,723	664
Other services incidental to water transportation	38	46,646	15,844	469
Marine cargo handling	9	**	**	EE
Towing and tugboat services	14	8,756	2,031	84
Water transportation services, n.e.c.	15	**	**	BB
<b>Air transportation #</b>	<b>171</b>	<b>599,271</b>	<b>126,328</b>	<b>4,709</b>
Air transportation, including air courier services #	131	508,530	105,983	3,042
Scheduled and air courier services #	96	454,445	96,900	3,049

## Massachusetts Summary Statistics for the 1992 Census of Transportation (continued)

Kind of business	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees *
Nonscheduled .....	35	54,085	9,083	353
Airport terminal services .....	40	90,741	20,345	1,307
<b>Pipelines, except natural gas .....</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Transportation services .....</b>	<b>1,443</b>	<b>577,903</b>	<b>224,895</b>	<b>9,062</b>
Arrangement of passenger transportation .....	1,153	372,887	145,273	6,515
Travel agencies .....	1,039	269,523	110,213	5,110
Other arrangement of passenger transportation . . .	114	103,364	35,060	1,405
Tour operators .....	83	86,097	30,280	1,136
Arrangement of passenger transportation, n.e.c.	31	17,267	4,780	269
Freight shipping services .....	263	189,497	73,532	2,346
Freight forwarding .....	116	96,904	35,482	1,060
Arrangement of freight and cargo, n.e.c. ....	147	92,593	38,050	1,286
Other transportation services .....	27	15,519	6,090	201
Rental of railroad cars .....	0	0	0	0
Miscellaneous services incidental to transportation	27	15,519	6,090	201
Packing and crating .....	13	7,751	3,403	99
Fixed facilities, inspection and weighing services	2	**	**	AA
Transportation services, n.e.c. ....	12	**	**	BB

\* Paid employees for pay period including March 12.

\*\* Withheld to avoid disclosing data for individual companies; data are included in broader kind-of-business totals.

# Data do not include large, certificated passenger carriers that report to the Office of Airline Statistics, U.S. Department of Transportation.

AA = Employment size 0-19.

BB = Employment size 20-99.

EE = Employment size 250-499.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities*, UC92-A-1 (Washington, DC: 1995).

## **Truck Registration and Vehicle-Miles Traveled**



# Truck Inventory and Use Survey (TIUS)

## Abstract

This database provides detailed information on the physical and operational characteristics of the Nation's truck population. Collected from an approximately 154,000 truck sample, individual state and United States estimates are produced. Physical characteristics include model year, body type, empty weight, truck type, axle arrangement, length, and engine size. Operational characteristics include major use, products carried, annual and lifetime miles, area of operation, miles per gallon, operator classification, and hazardous materials transported.

## Source of Data

Owners of private and commercial trucks registered in each state complete a mail survey.

## Attributes

Geographic Coverage of Data: U.S. totals, 50 states, District of Columbia  
Time Span of Data Source: 1992  
First Developed: 1963  
Update Frequency: Quinquennial  
Last Update: 1995  
File Format: ASCII  
Media: CD-ROM, Microdata File, Printed Source

## Significant Features/Limitations

Only source of comprehensive data collected for trucks that are classified by their physical and operational characteristics and that also provide microdata records to data users of the transportation community. The records on the microdata file are modified to avoid disclosure of a sampled vehicle or operating company.

## Corresponding Print Source

1992 Census of Transportation, Truck Inventory and Use Survey

## Sponsoring Organization

U.S. Department of Commerce, Bureau of the Census

## Availability

Data File: DOC/Bureau of the Census, Customer Services, Washington, DC 20233; (301) 457-4100.

Printed Source: Superintendent of Documents, U.S. Government Printing Office, P. O. Box 371954, Pittsburgh, PA 15250-7954. Price, \$2.50/Individual State Report; \$15.00/U.S. Summary Report.

CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, S.W., Room 3430, Washington, DC 20590; (202) 366-3282; Fax: (202) 366-3640.

## Contact for Additional Information

Robert Crowther  
Chief, Transportation Characteristics Branch  
DOC/Bureau of the Census  
(301) 457-2797, Fax: (301) 457-2374

**Commercial and Private Truck Registration  
1992 Truck Inventory and Use Survey (TIUS)**

State	1992 TIUS	Percent change 1987 to 1992
Alabama .....	1,166,900	30.6
Alaska .....	200,500	17.7
Arizona .....	999,500	31.8
Arkansas .....	748,700	43.8
California .....	7,150,200	50.7
Colorado .....	1,092,900	12.3
Connecticut .....	543,600	24.1
Delaware .....	172,900	43.7
District of Columbia .....	29,400	48.1
Florida .....	2,673,200	38.9
Georgia .....	1,644,200	35.9
Hawaii .....	280,300	74.3
Idaho .....	467,000	46.7
Illinois .....	2,271,600	41.7
Indiana .....	1,414,300	31.4
Iowa .....	930,600	37.0
Kansas .....	1,001,700	37.5
Kentucky .....	1,015,900	25.7
Louisiana .....	1,123,800	21.3
Maine .....	338,600	30.6
Maryland .....	940,700	42.2
<b>Massachusetts .....</b>	<b>878,700</b>	<b>30.4</b>
Michigan .....	2,166,200	39.9
Minnesota .....	1,155,900	36.0
Mississippi .....	647,600	29.4
Missouri .....	1,357,100	33.8
Montana .....	371,800	18.1
Nebraska .....	533,900	20.2
Nevada .....	387,600	55.8
New Hampshire .....	306,300	31.3
New Jersey .....	1,098,500	36.3
New Mexico .....	581,100	23.8
New York .....	1,999,700	29.8
North Carolina .....	1,760,000	28.4
North Dakota .....	290,500	8.4
Ohio .....	2,188,900	26.1
Oklahoma .....	1,080,100	19.5
Oregon .....	1,059,000	27.5
Pennsylvania .....	2,367,600	40.3
Rhode Island .....	158,700	31.7
South Carolina .....	840,600	40.7
South Dakota .....	295,000	20.9
Tennessee .....	1,462,700	43.8
Texas .....	4,373,000	10.6
Utah .....	510,000	34.5
Vermont .....	157,000	20.2
Virginia .....	1,516,700	33.1
Washington .....	1,541,600	39.9
West Virginia .....	476,800	12.9
Wisconsin .....	1,196,800	48.4
Wyoming .....	234,900	4.7
<b>U.S. Total</b>	<b>59,200,800</b>	<b>32.8</b>

SOURCE: U.S. Department of Commerce, Bureau of the Census, *1992 Census of Transportation, Truck Inventory and Use Survey*, TC92-T-1 - TC92-T-51 (Washington, DC: 1995).

**Trucks Registered in Massachusetts by Size, Major Use, and Range of Operation**  
**1992 Truck Inventory and Use Survey**

Size in gross vehicle weight (gvw)	Number of trucks (thousands)	Percent
Light trucks (10,000 pounds or less gvw) . . . . .	828.0	94.2
Medium trucks (10,001-19,500 pounds gvw) . . . . .	16.8	1.9
Light-heavy trucks (19,501-26,000 pounds gvw) . . . . .	8.5	1.0
Heavy-heavy trucks (26,001 pounds or more gvw) . . . . .	25.4	2.9
Total . . . . .	878.7	100.0
<b>Major use</b>		
Personal transportation . . . . .	609.5	69.4
For-hire transportation . . . . .	15.6	1.8
Other business use (private trucking)		
Agriculture . . . . .	8.8	1.0
Forestry and lumbering . . . . .	-	-
Mining and quarrying . . . . .	0.4	0.0
Construction . . . . .	107.1	12.2
Manufacturing . . . . .	7.3	0.8
Wholesale trade . . . . .	14.9	1.7
Retail trade . . . . .	30.4	3.5
Utilities . . . . .	10.7	1.2
Services . . . . .	60.7	6.9
Daily and one-way rental . . . . .	5.9	0.7
Other . . . . .	-	-
Not in use . . . . .	5.5	0.6
<b>Range of operation (miles from vehicle's home base)</b>		
Local (less than 50 miles) . . . . .	678.3	77.2
Short range (50-200 miles) . . . . .	146.9	16.7
Long range (beyond 200 miles) . . . . .	20.8	2.4

- Suppressed because data are statistically unreliable.

SOURCE: U.S. Department of Commerce, Bureau of the Census, *1992 Census of Transportation, Truck Inventory and Use Survey*, TC92-T-22 (Washington, DC: 1994).

**Percent Vehicle Miles Traveled Outside Base State for Trucks by Use  
1992 Truck Inventory and Use Survey**

State	Personal use	For-hire transportation	Other business use
Alabama .....	7.7	62.9	15.1
Alaska .....	3.3	4.0	4.3
Arizona .....	7.2	43.2	7.4
Arkansas .....	6.9	76.6	17.7
California .....	4.7	17.5	2.5
Colorado .....	8.1	47.8	7.6
Connecticut .....	9.5	39.7	8.5
Delaware .....	14.8	55.1	20.5
District of Columbia .....	39.4	93.7	30.5
Florida .....	6.7	46.3	5.8
Georgia .....	7.9	46.7	14.3
Hawaii .....	0.1	0.0	0.0
Idaho .....	10.9	52.2	14.1
Illinois .....	9.6	44.4	11.5
Indiana .....	7.9	60.1	21.6
Iowa .....	8.4	63.9	14.7
Kansas .....	9.4	54.4	10.3
Kentucky .....	7.7	50.4	10.7
Louisiana .....	9.5	37.6	8.3
Maine .....	7.7	47.3	12.4
Maryland .....	10.2	44.5	15.3
<b>Massachusetts .....</b>	<b>9.9</b>	<b>30.8</b>	<b>12.0</b>
Michigan .....	7.3	46.7	6.1
Minnesota .....	7.0	49.8	9.1
Mississippi .....	10.2	68.2	14.7
Missouri .....	7.8	65.6	12.4
Montana .....	6.6	58.3	10.8
Nebraska .....	7.1	64.2	9.7
Nevada .....	11.1	33.6	14.6
New Hampshire .....	15.7	49.1	21.1
New Jersey .....	12.1	48.3	14.1
New Mexico .....	11.7	35.3	12.2
New York .....	8.1	37.6	7.0
North Carolina .....	8.0	55.6	11.4
North Dakota .....	10.9	58.9	12.5
Ohio .....	7.9	47.1	10.6
Oklahoma .....	8.2	49.0	9.5
Oregon .....	8.2	39.1	8.2
Pennsylvania .....	9.6	49.3	14.5
Rhode Island .....	13.9	77.0	22.8
South Carolina .....	7.9	46.8	11.0
South Dakota .....	9.4	64.9	10.1
Tennessee .....	5.4	65.7	12.4
Texas .....	4.4	34.1	5.8
Utah .....	7.4	65.7	11.8
Vermont .....	12.2	54.6	15.3
Virginia .....	9.9	30.0	9.4
Washington .....	5.6	30.4	8.6
West Virginia .....	11.8	45.6	17.5
Wisconsin .....	8.5	58.4	10.8
Wyoming .....	10.6	48.3	10.0

SOURCE: U.S. Department of Commerce, Bureau of the Census, *1992 Census of Transportation, Truck Inventory and Use Survey*, Microdata File on CD (Washington, DC: 1995).

# Highway Statistics

## Abstract

This annual publication compiles a wide range of information on highway extent, condition, performance, use, and finance. Freight-related tables include numbers of trucks and trailers by State, vehicle miles of travel, and information on commercial drivers licenses.

## Source of Data

State agencies.

## Attributes

Geographic Coverage of Data: U.S. totals, 50 states, District of Columbia  
Time Span of Data Source: 1994  
First Developed: 1945  
Update Frequency: Annual  
Last Update: 1995  
File Format: HTML, Excel  
Media: CD-ROM, Internet, Printed Source

## Significant Features/Limitations

Data on numbers of trucks and truck vehicle miles of travel are not consistent between *Highway Statistics* and the Census Bureau's Truck Inventory and Use Survey. *Highway Statistics* is based on the total number of vehicles registered in each State throughout the reporting year, while the Truck Inventory and Use Survey is based on a snapshot of the vehicle fleet at the middle of the year. Vehicle types are also classified differently.

## Sponsoring Organization

U.S. Department of Transportation, Federal Highway Administration

## Availability

Printed Source: DOT/FHWA, Office of Highway Information Management, HPM-1, Washington, DC 20590; (202) 366-0180.

CD-ROM: DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 3430, Washington, DC 20590; (202) 366-3282; Fax: (202) 366-3640.

Internet: [www.bts.gov](http://www.bts.gov).

## Contact for Additional Information

Staff  
DOT/FHWA, Office of Highway Information Management, HPM-1  
(202) 366-0180

**Trailer and Semi-Trailer Registrations  
1994 Highway Statistics**

State	Commercial trailers	Other private or commercial trailers*	Publicly- owned trailers	Total
Alabama . . . . .	56,393	72,577	1,021	129,991
Alaska . . . . .	16,754	69,096	1,198	87,048
Arizona . . . . .	48,917	247,547	3,736	300,200
Arkansas . . . . .	34,429	391,183	271	425,883
California . . . . .	683,252	2,026,667	42,686	2,752,605
Colorado . . . . .	57,175	208,655	2,143	267,973
Connecticut . . . . .	28,455	138,789	2,604	169,848
Delaware . . . . .	12,527	28,796	608	41,931
District of Columbia . . . . .	95	1,015	466	1,576
Florida . . . . .	116,332	947,866	27,212	1,091,410
Georgia . . . . .	110,972	395,974	3,519	510,465
Hawaii . . . . .	3,984	16,727	776	21,487
Idaho . . . . .	18,115	97,038	2,807	117,960
Illinois . . . . .	78,834	438,631	906	518,371
Indiana . . . . .	89,883	331,914	2,046	423,843
Iowa . . . . .	75,579	285,196	3,847	364,622
Kansas . . . . .	80,277	41,429	859	122,565
Kentucky . . . . .	39,658	58,449	164	98,271
Louisiana . . . . .	206,264	310,085	2,437	518,786
Maine . . . . .	533,693	101,587	2,192	637,472
Maryland . . . . .	14,313	203,227	479	218,019
<b>Massachusetts . . . . .</b>	<b>23,518</b>	<b>152,277</b>	<b>229</b>	<b>176,024</b>
Michigan . . . . .	87,159	826,803	4,339	918,301
Minnesota . . . . .	177,779	624,216	3,786	805,781
Mississippi . . . . .	28,061	75,577	1,509	105,147
Missouri . . . . .	82,155	310,025	478	392,658
Montana . . . . .	17,353	155,223	3,013	175,589
Nebraska . . . . .	69,289	165,050	907	235,246
Nevada . . . . .	9,634	108,466	1,170	119,270
New Hampshire . . . . .	8,718	86,372	1,072	96,162
New Jersey . . . . .	40,059	277,682	251	317,992
New Mexico . . . . .	16,935	89,028	2,988	108,951
New York . . . . .	19,721	512,189	6,078	537,988
North Carolina . . . . .	81,229	450,253	8,544	540,026
North Dakota . . . . .	18,538	38,398	723	57,659
Ohio . . . . .	132,811	511,068	6,457	650,336
Oklahoma . . . . .	81,517	70,630	1,791	153,938
Oregon . . . . .	46,401	235,553	8,478	290,432
Pennsylvania . . . . .	123,690	549,796	3,994	677,480
Rhode Island . . . . .	6,350	35,789	837	42,976
South Carolina . . . . .	34,289	28,932	1,071	64,292
South Dakota . . . . .	25,348	101,192	1,263	127,803
Tennessee . . . . .	29,279	32,622	376	62,277
Texas . . . . .	206,931	1,202,425	34,831	1,444,187
Utah . . . . .	22,807	92,193	478	115,478
Vermont . . . . .	2,989	58,159	866	62,014
Virginia . . . . .	74,477	217,809	2,523	294,809
Washington . . . . .	139,976	424,434	2,043	566,453
West Virginia . . . . .	35,878	72,102	4,170	112,150
Wisconsin . . . . .	164,369	48,587	1,571	214,527
Wyoming . . . . .	7,835	108,838	997	117,670
<b>U.S. Total</b>	<b>4,120,994</b>	<b>14,074,140</b>	<b>208,809</b>	<b>18,403,943</b>

\* Includes light farm trailers, car trailers, house trailers, etc.

SOURCE: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics, 1994*, FHWA-PL-95-042 (Washington, DC: 1995).

## **Motor Carrier Statistics**

# Motor Carrier Financial and Operational Statistics

## Abstract

This data program was transferred to the Bureau of Transportation Statistics by the Interstate Commerce Commission Termination Act of 1995. Class I and II Motor Carriers of Property and Passengers are required to submit financial, employee, operating, and other data pursuant to 49 U.S.C. 14123. Unless otherwise prohibited, these reports are made available to the public through a reports reference facility. In addition, selected data are published in aggregate and for the largest carriers.

## Source of Data

Class I and Class II Motor Carriers of Property and Class I Motor Carriers of Passengers.

## Attributes

Geographic Coverage of Data: Class I and Class II Motor Carriers of Property and Class I Motor Carriers of Passengers.  
Update Frequency: Continuously  
Media: Printed Source

## Significant Features/Limitations

The reports from carriers are made available unaudited and unedited.

## Sponsoring Organization

U.S. Department of Transportation, Bureau of Transportation Statistics

## Availability

DOT/Bureau of Transportation Statistics, 400 7th Street, SW, Room 4201, Washington, DC 20590; (202) 366-4383; Fax: (202) 366-3383.

## Contact for Additional Information

Staff  
DOT/Bureau of Transportation Statistics  
(202) 366-4383, Fax: (202) 366-3383  
E-mail: [mcs@bts.gov](mailto:mcs@bts.gov)

## State Data

Due to the recent transfer of the program to BTS, state-level data are not available for publication. In the future, BTS plans to publish selected earnings and other data for carriers by state.



## Fatal Truck Crashes

# Truck and Bus Accident Factbook

## Abstract

This report presents aggregate statistics on trucks and buses involved in traffic accidents.

## Performing Organization

University of Michigan, Transportation Research Institute

## Sources of Data

Federal Highway Administration, Office of Motor Carriers (accident statistics reported through the SAFETYNET data system); National Highway Traffic Safety Administration (General Estimates System and Fatal Accident Reporting System); and The University of Michigan, Transportation Research Institute (Trucks Involved in Fatal Accidents file).

## Availability

Center for National Truck Statistics, University of Michigan Transportation Research Institute, 2901 Baxter Road, Ann Arbor, Michigan 48109; (313) 764-0248; Fax: (313) 936-1081.

## Contact for Additional Information

Truck and Bus Accident Factbook, SAFETYNET, and Trucks Involved in Fatal Accidents

## Attributes

Geographic Coverage of Data: United States  
Update Frequency: Annual  
Media: Printed Source

Ralph Craft  
DOT/ Federal Highway Administration  
(202) 366-0324, Fax: (202) 366-7298  
E-mail: ralph.craft@fhwa.dot.gov

## Sponsoring Organizations

Michigan Office of Highway Safety Planning; U. S. Department of Transportation, Federal Highway Administration, Office of Motor Carriers

Fatal Accident Reporting System

Chuck Venturi  
DOT/ National Highway Traffic Safety Administration  
(202) 366-4709, Fax: (202) 366-7078

### Number of Fatal Involvements by State and Combination Type, 1993

State	Single-unit	One-trailer	Multi-trailer	Total
Alabama .....	36	108	3	147
Alaska .....	2	1	0	3
Arizona .....	29	36	4	69
Arkansas .....	16	82	4	102
California .....	104	197	59	360
Colorado .....	23	36	0	59
Connecticut .....	10	15	1	26
Delaware .....	5	17	0	22
District of Columbia .....	2	1	1	4
Florida .....	94	198	2	294
Georgia .....	61	99	6	166
Hawaii .....	1	2	1	4
Idaho .....	5	5	1	11
Illinois .....	39	110	3	152
Indiana .....	49	81	3	135
Iowa .....	22	63	0	85
Kansas .....	16	45	7	68
Kentucky .....	38	67	0	105
Louisiana .....	21	60	1	82
Maine .....	6	15	0	21
Maryland .....	24	26	0	50
<b>Massachusetts .....</b>	<b>21</b>	<b>16</b>	<b>0</b>	<b>37</b>
Michigan .....	26	68	17	111
Minnesota .....	20	43	0	63
Mississippi * .....	1	4	0	90
Missouri .....	24	78	6	108
Montana .....	3	8	1	12
Nebraska .....	14	41	1	56
Nevada .....	6	16	3	25
New Hampshire .....	4	3	0	7
New Jersey .....	35	40	1	76
New Mexico .....	9	25	4	38
New York .....	82	64	2	148
North Carolina .....	64	142	3	209
North Dakota .....	7	10	0	17
Ohio .....	66	127	2	195
Oklahoma .....	28	57	3	88
Oregon .....	10	46	7	63
Pennsylvania .....	72	122	3	197
Rhode Island .....	5	3	0	8
South Carolina .....	24	65	2	91
South Dakota .....	6	11	0	17
Tennessee .....	45	76	2	123
Texas .....	93	257	10	360
Utah .....	8	19	1	28
Vermont .....	4	9	0	13
Virginia .....	33	60	2	95
Washington .....	18	36	9	63
West Virginia .....	13	29	0	42
Wisconsin .....	28	61	2	91
Wyoming .....	3	11	1	15
<b>U.S. Total .....</b>	<b>1,375</b>	<b>2,811</b>	<b>178</b>	<b>4,451</b>

\* Truck configuration is generally unavailable for Mississippi because the state does not release police reports to the TIFA project.

SOURCE: U.S. Department of Transportation, Federal Highway Administration, *Truck and Bus Accident Factbook 1993*, UMTRI-95-43 (Washington, DC: 1995).

## **Rail Accidents and Fatalities**

# Railroad Accident/Incident Reporting System (RAIRS)

## Abstract

RAIRS contains four data bases: rail equipment, injury/illness, grade-crossing accidents, and railroad summary (freight and passenger). These data bases include information on all railroad accidents, grade-crossing accidents, railroad employee casualties, and any other injuries on railroad property. These data bases provide the basis for accident analyses and assessment as well as annual reports.

## Source of Data

Railroads.

## Attributes

Geographic Coverage of Data: U.S. totals  
Time Span of Data Source: 1976-present  
First Developed: 1975  
Update Frequency: Monthly  
File Format: Sequential  
Media: 9-Track Tape, Diskette, Printed Source, Internet

## Corresponding Printed Source

*Rail Highway Grade-Crossing Accident/Incident and Inventory Bulletin*

*Accident/Incident Bulletin*

## Sponsoring Organization

U.S. Department of Transportation/Federal Railroad Administration, Systems Support Division

## Availability

Data file: DOT/FRA, Systems Support Division, RRS-22, 400 7th Street, SW, Washington, DC 20590; (202) 366-2760; Fax: (202) 366-7592. Price \$35/tape, non-government agencies. No charge to government, railroad, or railroad labor requesters.

Internet: [gopher.dot.gov/1/fra/safety](http://gopher.dot.gov/1/fra/safety)

## Contact for Additional Information

Robert Finkelstein, Chief  
DOT/FRA, RRS-22  
(202) 366-2760, Fax: (202) 366-7592

### Number of Rail Accidents and Fatalities, 1995\*

State	Railroad accidents**	Railroad fatalities**	Rail-highway grade crossing accidents ***	Rail-highway grade crossing fatalities***
Alabama . . . . .	5	0	166	16
Alaska . . . . .	3	0	3	0
Arizona . . . . .	25	0	30	2
Arkansas . . . . .	27	0	137	22
California . . . . .	49	1	154	21
Colorado . . . . .	29	0	51	11
Connecticut . . . . .	0	0	3	1
Delaware . . . . .	2	0	2	0
Florida . . . . .	20	0	78	22
Georgia . . . . .	16	0	137	16
Hawaii . . . . .	0	0	0	0
Idaho . . . . .	21	0	28	7
Illinois . . . . .	83	3	226	34
Indiana . . . . .	24	0	242	29
Iowa . . . . .	53	0	95	9
Kansas . . . . .	37	0	83	15
Kentucky . . . . .	17	0	93	7
Louisiana . . . . .	31	0	193	26
Maine . . . . .	4	0	6	0
Maryland . . . . .	4	0	10	0
<b>Massachusetts . . . . .</b>	<b>6</b>	<b>0</b>	<b>10</b>	<b>1</b>
Michigan . . . . .	25	0	116	5
Minnesota . . . . .	48	0	116	18
Mississippi . . . . .	44	0	145	31
Missouri . . . . .	43	2	112	22
Montana . . . . .	24	0	14	4
Nebraska . . . . .	53	0	73	7
Nevada . . . . .	1	1	7	4
New Hampshire . . . . .	2	0	5	0
New Jersey . . . . .	6	0	13	2
New Mexico . . . . .	11	1	16	5
New York . . . . .	44	0	46	9
North Carolina . . . . .	10	0	121	11
North Dakota . . . . .	28	0	34	7
Ohio . . . . .	43	0	215	36
Oklahoma . . . . .	30	0	103	15
Oregon . . . . .	17	0	30	12
Pennsylvania . . . . .	46	0	67	10
Rhode Island . . . . .	0	0	1	0
South Carolina . . . . .	9	0	102	6
South Dakota . . . . .	35	0	33	4
Tennessee . . . . .	25	0	89	11
Texas . . . . .	111	1	407	55
Utah . . . . .	10	0	24	7
Vermont . . . . .	3	0	4	0
Virginia . . . . .	21	0	56	6
Washington . . . . .	35	0	65	3
West Virginia . . . . .	16	0	31	1
Wisconsin . . . . .	41	1	111	13
Wyoming . . . . .	35	1	11	0
<b>U.S. Total</b>	<b>1,272</b>	<b>11</b>	<b>3,914</b>	<b>543</b>

\* Includes only accidents/incidents involving freight trains or mixed freight and passenger trains.

\*\* Includes only collisions, derailments, or other events involving the operation of railroad on-track equipment resulting in damages that exceed \$6,300.

\*\*\* Includes any highway-rail collision regardless of severity .

SOURCE: U.S. Department of Transportation, Federal Railroad Administration, *Railroad Accident/Incident Reporting System (RAIRS)* (Washington, DC: 1996).

## **Hazardous Materials Incidents**

# Hazardous Materials Incident Reporting System

## Abstract

This system is used to process information on the unintentional release of hazardous materials during the course of transportation. This information is compiled in accordance with the requirement levied in the Transportation Safety Act of 1974, Public Law 93-633. The major uses of the system are to highlight problem areas, pinpoint need for corrective action, and provide a statistical compilation of all accidents and incidents involving hazardous materials. The system contains information on each reported incident and consists of data elements such as the date of the incident, location, shipper, carrier, commodity involved, and other detailed information concerning the packaging and nature of the incident. Monthly and yearly reports are generated and include, but are not limited to, incidents by mode, incidents involving exemptions, commodity, container, cause and state summaries.

## Source of Data

Carriers of hazardous materials are required to report to the U.S. Department of Transportation, Research and Special Programs Administration certain unintentional release that occurred during transportation. These reports include (a) immediate telephone notification made to the U.S. Coast Guard's national Response Center (NRC) since 1982; and (b) written reports on hazardous material spills, Form F5800.1, made within 30 days of the incident and collected since 1971.

## Attributes

Geographic Coverage of Data: U.S. totals, 50 states, District of Columbia, county, city, U.S. territories, Canada  
Time Span of Data Source: 1971-present  
First Developed: 1971  
Update Frequency: Quarterly/written report; daily/telephone report  
File Format: System 1032 (VAX)  
Media: 9-Track Tape, Diskette, Printout

## Sponsoring Organization

DOT/Research and Special Programs  
Administration, Office of Hazardous Materials  
Planning and Analysis

## Availability

DOT/RSPA, Office of Hazardous Materials  
Planning and Analysis, DHM-63, 400 7th Street,  
S.W., Washington, DC 20590; (202) 366-4555;  
Fax: (202) 366-7435. Price \$35

## Contact for Additional Information

Kevin Coburn  
Information Systems Manager  
DOT/RSPA, DHM-63  
(202) 366-4555, Fax: (202) 366-7435  
E-mail: [coburnk@rspa.dot.gov](mailto:coburnk@rspa.dot.gov)



### Hazardous Materials Incident Statistics, 1995

State	Incidents	Injuries	Deaths	Damages(\$)
Alabama .....	168	6	0	368,895
Alaska .....	14	6	0	1,374
Arizona .....	122	4	0	785,401
Arkansas .....	210	4	0	814,016
California .....	1,090	37	3	2,751,502
Colorado .....	344	7	0	280,476
Connecticut .....	151	1	0	47,354
Delaware .....	17	0	0	6,390
District of Columbia .....	9	0	0	25,220
Florida .....	518	9	0	1,240,157
Georgia .....	435	28	0	1,114,849
Hawaii .....	6	0	0	976
Idaho .....	64	2	0	79,801
Illinois .....	842	29	0	3,822,414
Indiana .....	383	7	0	274,164
Iowa .....	147	4	0	158,860
Kansas .....	243	5	0	525,010
Kentucky .....	338	6	1	499,510
Louisiana .....	212	7	0	440,723
Maine .....	41	0	0	12,756
Maryland .....	226	2	0	184,546
<b>Massachusetts .....</b>	<b>351</b>	<b>4</b>	<b>0</b>	<b>220,145</b>
Michigan .....	337	16	1	280,081
Minnesota .....	327	8	0	1,046,811
Mississippi .....	147	1	0	1,312,156
Missouri .....	364	8	0	573,229
Montana .....	16	0	0	590,486
Nebraska .....	120	1	0	55,619
Nevada .....	49	0	0	119,081
New Hampshire .....	42	1	0	19,134
New Jersey .....	297	9	0	307,593
New Mexico .....	136	2	0	209,147
New York .....	758	7	0	1,909,976
North Carolina .....	639	8	0	401,995
North Dakota .....	20	0	0	48,170
Ohio .....	1,415	29	0	1,746,188
Oklahoma .....	133	1	0	496,830
Oregon .....	254	9	0	377,948
Pennsylvania .....	918	14	0	1,106,324
Rhode Island .....	11	1	0	24,700
South Carolina .....	167	3	0	312,206
South Dakota .....	20	1	0	66,535
Tennessee .....	581	13	0	278,733
Texas .....	1,072	37	1	2,020,159
Utah .....	343	10	0	121,200
Vermont .....	15	1	0	148,351
Virginia .....	148	15	0	362,148
Washington .....	156	7	0	118,065
West Virginia .....	53	24	0	405,846
Wisconsin .....	129	1	0	385,791
Wyoming .....	77	2	0	307,309
<b>U.S. Total</b>	<b>14,688</b>	<b>399</b>	<b>6</b>	<b>28,827,110</b>

Source: U.S. Department of Transportation, Research and Special Programs Administration, *Hazardous Materials Information System* (Washington, DC: 1996).